

# The North Sea: Energy transition in action

Geosciences and the energy transition: resources on a finite planet

Dr Andy Samuel, Chief Executive

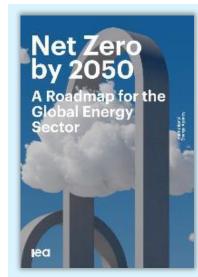
7 September 2021

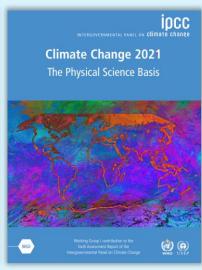
© OGA 2021

This presentation is for illustrative purposes only. The OGA makes no representations or warranties, express or implied, regarding the quality, completeness or accuracy of the information contained herein. All and any such responsibility and liability is expressly disclaimed. The OGA does not provide endorsements or investment recommendations. Oil and Gas Authority is a limited company registered in England and Wales with registered number 09666504 and VAT registered number 249433979. Our registered office is at 21 Bloomsbury Street, London, United Kingdom, WC1B 3HF

# Oil and Gas under the spotlight







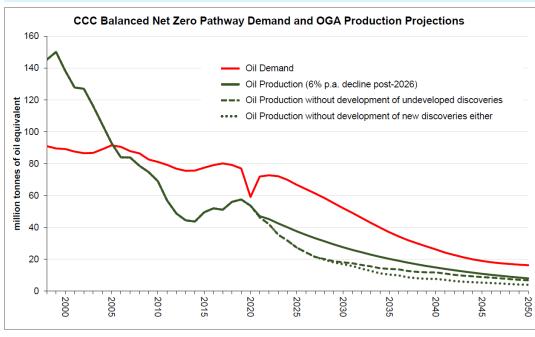


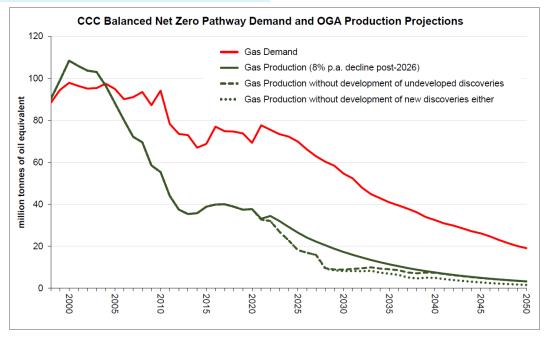


Oil & gas meets

**UK** energy demand



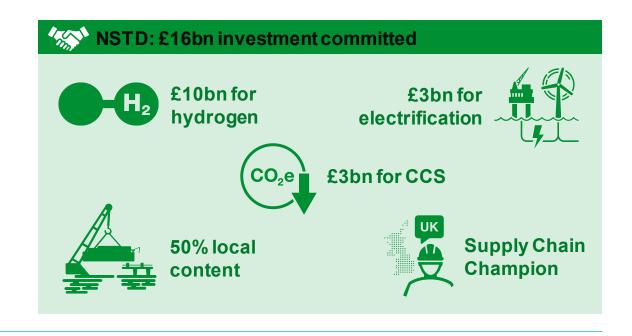




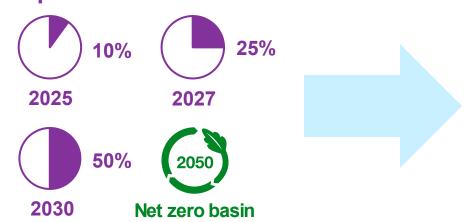
#### **North Sea Transition Deal**



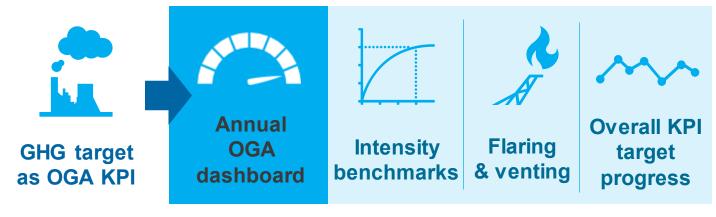
- Govt & industry commitment to transition
- First of kind for G7 country
- Future licensing climate checkpoint
- Quid pro quo



# **Industry commitment to reducing upstream GHG emissions**

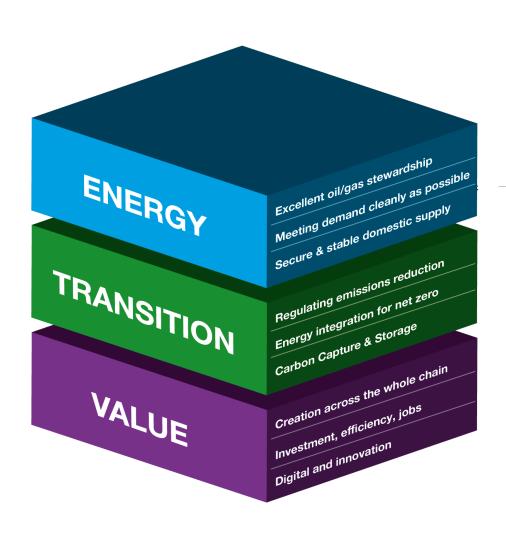


#### **OGA** tracking and monitoring progress



# **Driving rapid transition**









**Strategy** 







22%
nual reductio

Annual reduction in flaring volume



80%

OGA PE target retained



10%

Annual reduction in CO2 emissions



11.2/boe

Unit operating cost



980,000

tonnes CO2 avoided YTD

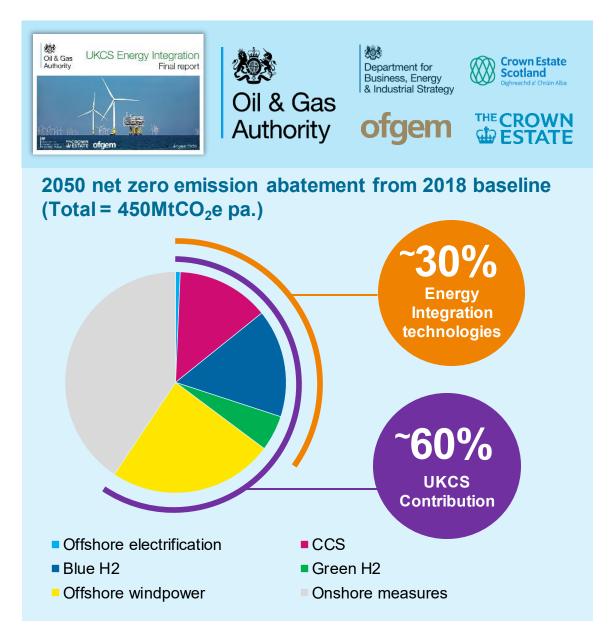


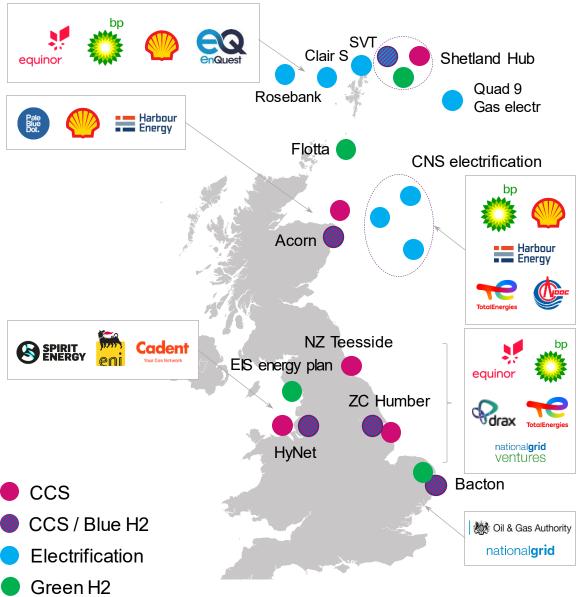
23%

Decom cost reduction since 2017

# **New chapter for the North Sea**

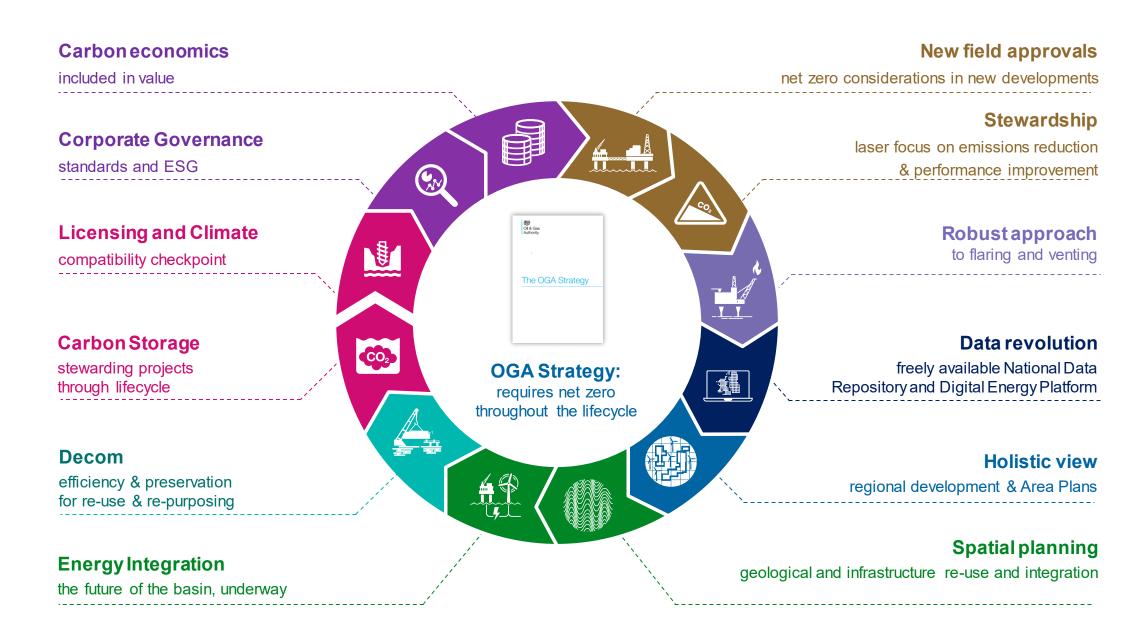




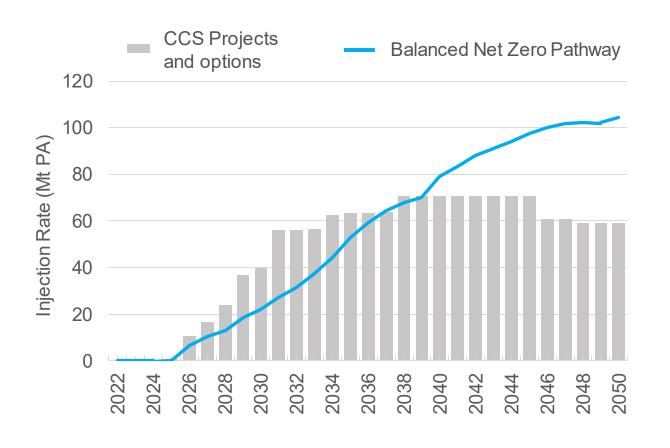


# Whole systems approach





#### CCS – the time is now



#### **Opportunity**

Potential to be "ahead of the curve" if pace continues

78 GtCO<sub>2</sub>

75-175 MtCO<sub>2</sub>

Total UKCS CO<sub>2</sub> storage resource estimate

ccc estimate requirement in 2050

Spatial planning to high-grade future sites







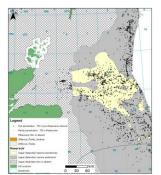
carbon storage licences being stewarded towards storage permit application and first CO<sub>2</sub> injection

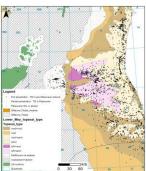
3

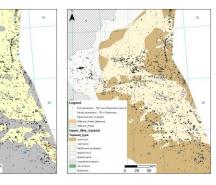
carbon storage licences applications being assessed

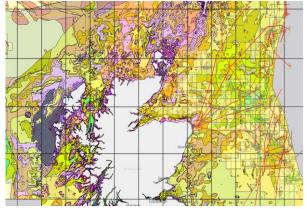
### CCS – the time is now













Data mapping



Subsurface plays



**Quantitative** assessment



Portfolio build



**Co-location prioritisation mapping** 



Licensing/ leasing

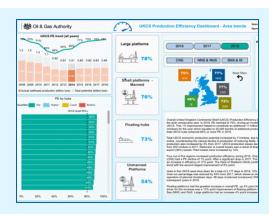


**Stewardship** 



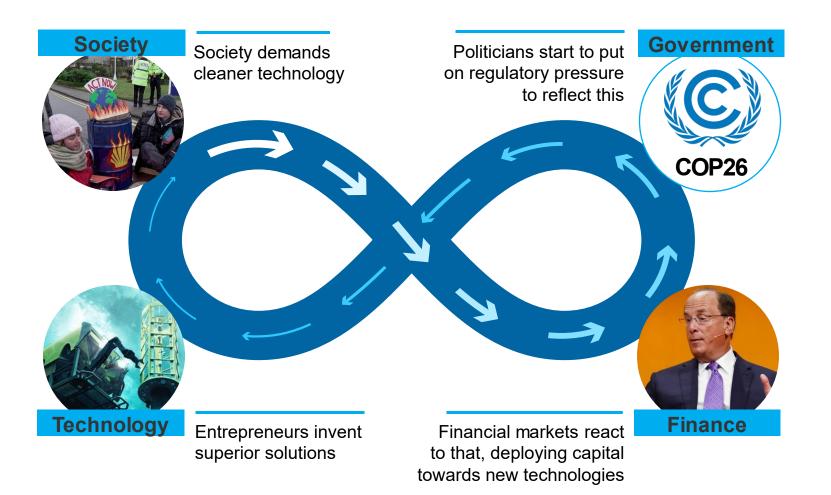
#### **Digital Energy Platform**

- National Data Repository
- GIS
- Insights, analysis, benchmarking



# Pace of change – positive feedback loop





#### Leading with purpose



Climate change – Loss of Biodiversity – Social inequality



Unique opportunity post pandemic green and just recovery



Requires whole systems approach and down to all of us



# Thank you